## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:
Listing of Claims:

Claims 1-16 (Cancelled).

- shared resources in a computerized system at a command level, with the aid of a processor for processing a plurality of commands and executing thereof using at least two or more of said shared resources, wherein at least one command of the plurality of commands comprises at least two or more subcommands to be executed at different said at least two or more shared resources for executing said at least one command, the method comprising steps of:
- [[-]] deriving, from each of said plurality of commands, subcommands respectively related to said shared resources,
  - [[-]] assigning priorities to said subcommands,
- [[-]] forwarding said subcommands to one or more queues of the respective two or more shared resources, so that each of said queues comprises the subcommands related to a particular shared resource,

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executing the subcommands from said queues by said shared resources in an asynchronous manner, and according to said subcommand priorities by each of the shared resources, by allowing at least one subcommands—subcommand of one command to start\_executing start executing while subcommands of another command are not finished executing,

wherein the step of assigning priorities to the subcommands comprises assigning a combined priority to each subcommand, the combined priority being determined based on the priority of the subcommand in the command and the priority of said command, so that commands having a higher priority, have higher priority sub-commands.

- 18. (Previously presented) The method according to Claim 17, further comprising a step of assigning different command priorities to said commands, wherein the command priorities set an order of their urgency.
- 19. (Previously presented) The method according to Claim 18, wherein the step of assigning priorities to said subcommands comprises assigning to them the priority equal to that of the command from which the subcommands are derived.
- 20. (Previously presented) The method according to Claim 17, wherein the step of assigning priorities to said subcommands comprises defining one group of the subcommands as

critical subcommands for execution of their respective commands, and another group of the subcommands as non-critical commands for execution of their respective commands, wherein priorities of the critical subcommands are higher than priorities of the non-critical subcommands.

- 21. (Cancelled).
- 22. (Currently Amended) The method according to Claim 17, further comprising steps of:
- [[-]] in each of the shared resources, upon executing the subcommands from the subcommand queue according to the subcommand priorities, obtaining respective responses of successful completion and outputting thereof into a response queue of the shared resource;
- [[-]] forwarding each of the responses from the response queues to the command from which the corresponding subcommand was derived, for further creating reports of successful completion relating to said commands.
- 23. (Currently Amended) The method according to Claim 22, further comprising a step of issuing a preliminary report with respect to a particular command before completing its execution, but upon receiving, with respect to said particular command, of at least one or more of said responses of successful completion concerning the respective subcommands

having high priority, in order to initiate urgent execution of another command of said plurality.

- 24. (Currently Amended) A <u>computer</u> control system for utilizing shared resources at a command level, the <u>computer</u> control system comprising <u>at least</u> one <del>or more</del> command <del>processors</del> processor for processing a plurality of commands, each of said command processors being capable of cooperating with <u>at least</u> two <del>or more</del> said shared resources; each of said command processors being operative to:
- [[-]] derive, from a command of said plurality of commands, at least two or more subcommands to be respectively executed subcommands at said at least two or more shared resources,
  - [[-]] assign priorities to said subcommands,
- [[-]] forward the <u>at least</u> two <del>or more</del>—subcommands of said command to the respective <u>at least</u> two <del>or more</del>—shared resources for execution, wherein subcommands of other commands being—are also forwarded to said <u>at least</u> two <del>or more</del>—shared resources for execution;
- [[-]] receive from said shared resources responses of successful completion concerning the respective subcommands, and

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- [[-]] based on the responses concerning said subcommands, form reports of successful completion or partial reports concerning the respective commands,
- [[-]] thereby enabling said at least two or more shared resources to execute the subcommands of different commands in an asynchronous manner, according to the priorities of said subcommands, by allowing subcommands of one command to start execution while subcommands of another command are not finished executing,

wherein the step of assigning priorities to the subcommands comprises assigning a combined priority to each subcommand, the combined priority being determined based on the priority of the subcommand in the command and the priority of said command, so that commands having a higher priority, have higher priority sub-commands.

25. (Currently Amended) The <u>computer</u> control system according to Claim 24, further comprising a <u>master</u> processor capable of cooperating with said command processors, <u>wherein</u> said processor has a higher level with respect to said command <u>processors</u> being slave processors;

said master processor being operative to distribute the commands between said command processors, and receive from said command processors reports of successful completion concerning the respective commands.

- 26. (Currently Amended) The <u>computer</u> control system according to Claim 25, wherein the <u>master</u> processor is operative to sort the commands by priorities between said command processors.
- 27. (Currently Amended) The <u>computer</u> control system according to Claim 24, wherein each of said command processors is capable of dividing said subcommands into a group of critical subcommands being critical for execution of their respective commands, and a group of non-critical subcommands being non-critical for execution of their respective commands, wherein priorities of the critical subcommands are higher than priorities of the non-critical subcommands.
- 28. (Currently Amended) The <u>computer</u> control system according to Claim 27, wherein at least one of said command processors is capable of issuing a preliminary report with respect to a particular command of said plurality, before the particular command is completely executed, the preliminary report is based on <u>at least</u> one <u>or more of</u> said responses of successful completion concerning the critical subcommands of the particular command.
- 29. (Currently Amended) The <u>computer</u> control system according to Claims 24, <u>additionally</u> further comprising:

at least two or more input memory buffers

respectively associated with said at least two or more of the shared resources, for gathering and queuing said subcommands of different commands to be input to the shared resource, and at least two or more output memory buffers for

queuing responses when outputted from the respective shared resources.

- 30. (Currently Amended) The <u>computer</u> control system according to Claim 29, wherein said input memory buffers are capable of sorting the subcommands in <u>thea</u> queue so that the first subcommand to be read from the queue is always that having the highest priority in the queue.
- 31. (Currently Amended) The <u>computer</u> control system according to Claim 24, <u>being</u> wherein the control system is a system for controlling a telecommunication network.
- 32. (Currently Amended) A computerized system with shared resources, comprising the <u>computer</u> control system according to Claim 24.
- 33. (Currently Amended) A method for utilizing shared resources at a command level in a computerized system comprising a processor for processing commands, and at least

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one or more shared resources resource required for execution of said commands, the method comprises steps of:

- [[-]] deriving, from each of said commands,
  subcommands respectively related to said at least one or more
  shared resources
- [[-]] assigning priorities to said subcommands, forwarding said subcommands to at least one or more input queues—queue of the respective—at least one or more—shared resources, respectively, so that each of said input queues comprises the subcommands related to a particular shared resource and having their assigned priorities,
- [[-]] executing the subcommands from each of said queues according to said subcommand priorities by each of the shared resources in an asynchronous manner, by allowing at <a href="mailto:least\_one">least\_one</a> or more subcommands subcommand of one command to start executing while subcommands of another command are not finished executing,

wherein the step of assigning priorities to the subcommands comprises assigning a combined priority to each subcommand, the combined priority being determined based on the priority of the subcommand in the command and the priority of said command, so that commands having a higher priority, have higher priority sub-commands.

34. (Currently Amended) A <u>computer control</u> system capable of implementing the <u>a</u> method according to <u>Claim 33for</u> utilizing shared resources at a command level in a <u>computerized system comprising a processor for processing commands, and at least one shared resource required for execution of said commands, the method comprising steps of:</u>

deriving, from each of said commands, subcommands
respectively related to said at least one shared resource,
assigning priorities to said subcommands,

forwarding said subcommands to at least one input
queue of the at least one shared resources, respectively, so
that each of said input queues comprises the subcommands
related to a particular shared resource and having their
assigned priorities,

executing the subcommands from each of said queues
according to said subcommand priorities by each of the shared
resources in an asynchronous manner, by allowing at least one
subcommand of one command to start executing while subcommands
of another command are not finished executing

wherein the step of assigning priorities to the
subcommands comprises assigning a combined priority to each
subcommand, the combined priority being determined based on
the priority of the subcommand in the command and the priority

of said command, so that commands having a higher priority,
have higher priority sub-commands.